STEREO CASSETTE DECK WITH DOLBY SYSTEM

MODEL AD-1300 EE,UK

AIWA®

[SERVICE MANUAL]

ISO
Set using ISO screws

DATE OF ISSUE 25/8/1974

SPECIFICATIONS

Type:	Hi-Fi stereo cassette deck with Dolby system built in
Recording tracks:	4 tracks, 2 channels
Circuit:	31 transistors, 24 diodes, 2 FET
Power source:	AD 110–120 V/220–240 V 50/60 Hz
Power consumption:	58 dB (w/DOLBY NR On, CrO_2 tape)
Frequency response:	LH tape, 30–14,000 Hz CrO_2 tape, 30–16,000 Hz Fe-Cr tape, 30–16,000 Hz
S/N ratio:	0.09%
Wow & flutter:	4.8 cm/sec
Tape speed:	120 sec (w/ C-60)
Rewinding time:	120 sec (w/ C-60)
Fast forward time:	AC bias
Recording system:	AC erase
Erasing system:	C-30, C-60, C-90, (C-120)
Usable cassette tape:	DC servomotor
Motor:	Ferrite guard head
Head:	MIC, Max. Input Sensitivity, 0.25 mV (fit for 600 Ω–10 kΩ)
Input:	LINE, Max. Input Sensitivity, 50 mV (100 kΩ or higher) DIN, Max. Input Sensitivity, 0.1 mV/kΩ (2.5 kΩ)
Output:	LINE, Standard Output Level, 1.1 V (Dolby Level) Optimum Load Impedance, 50 kΩ or higher DIN, Standard Output Level, 1.1 V (Dolby Level) Optimum Load Impedance, 50 kΩ or higher
Dimensions:	407 x 102 x 261 m/m (16-1/16" x 10-9/32" x 4-1/32")
Weight:	5.1 kg (11.22 lbs)
Accessories:	Head cleaning stick x 1 DIN cord x 1 Tape cassette x 1

- The external design and the specifications are subject to change without prior notice.

* Dolby is a trade mark of Dolby Laboratories Incorporated.

DISASSEMBLY INSTRUCTIONS

1. How to Remove Back Cover

1) Remove six screws, (1) through (6).
(Refer to Fig. 1)

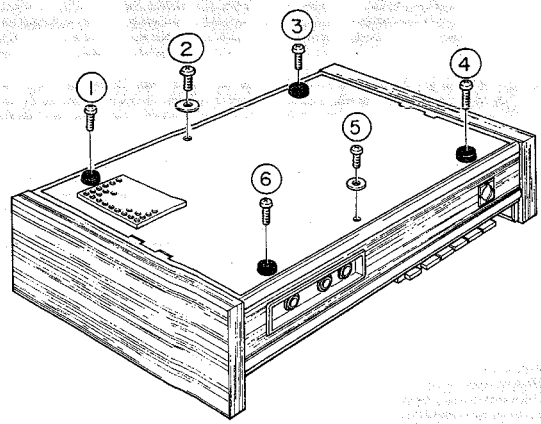


Fig. 1

2. How to Remove Mechanism Chassis (Chassis + Amp. Chassis)

1) Pull off record control knobs.
2) Remove six screw, (1) through (6).
(Refer to Fig. 2)

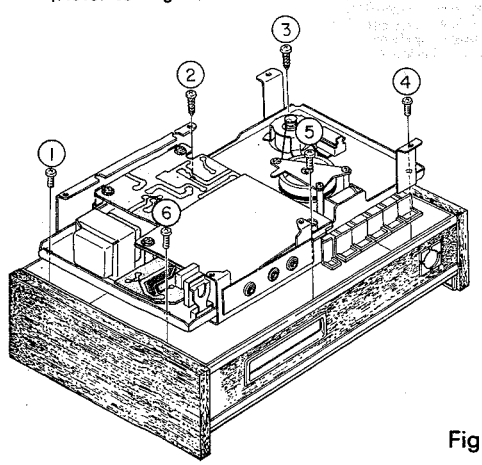


Fig. 2

※ When to chassis and amp. chassis have to be separated from each other, remove six screw, (1) through (6).
(Refer to Fig. 3)

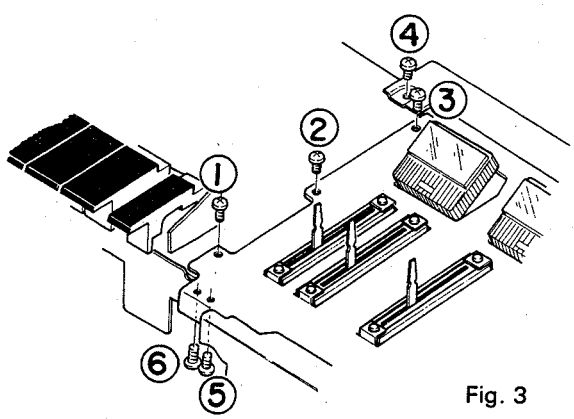


Fig. 3

3. How to Remove Main Circuit Board

1) Remove six screws, (1) through (6).

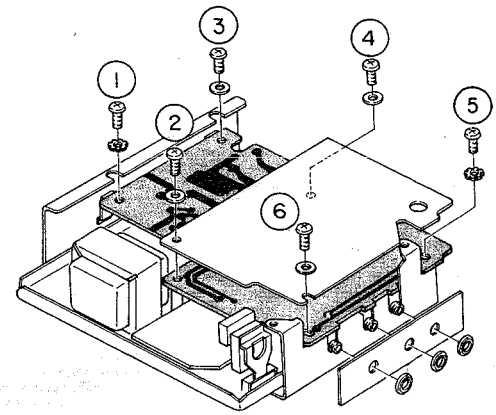


Fig. 4

4. How to Remove Switch Circuit Board

1) Remove nine screw, (1) through (9).
(Refer to Fig. 5)

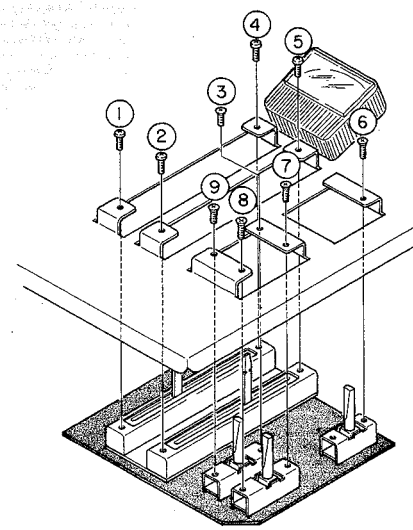


Fig. 5

5. How to Remove Stop Muting Switch Circuit Board

1) Remove one screw (1).
(Refer to Fig. 6)

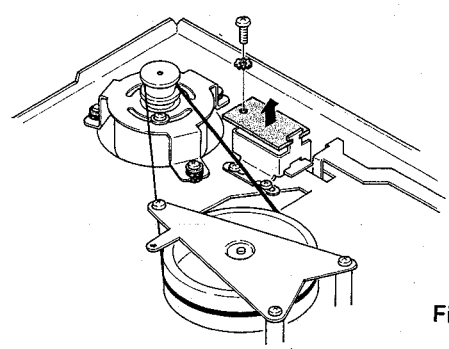
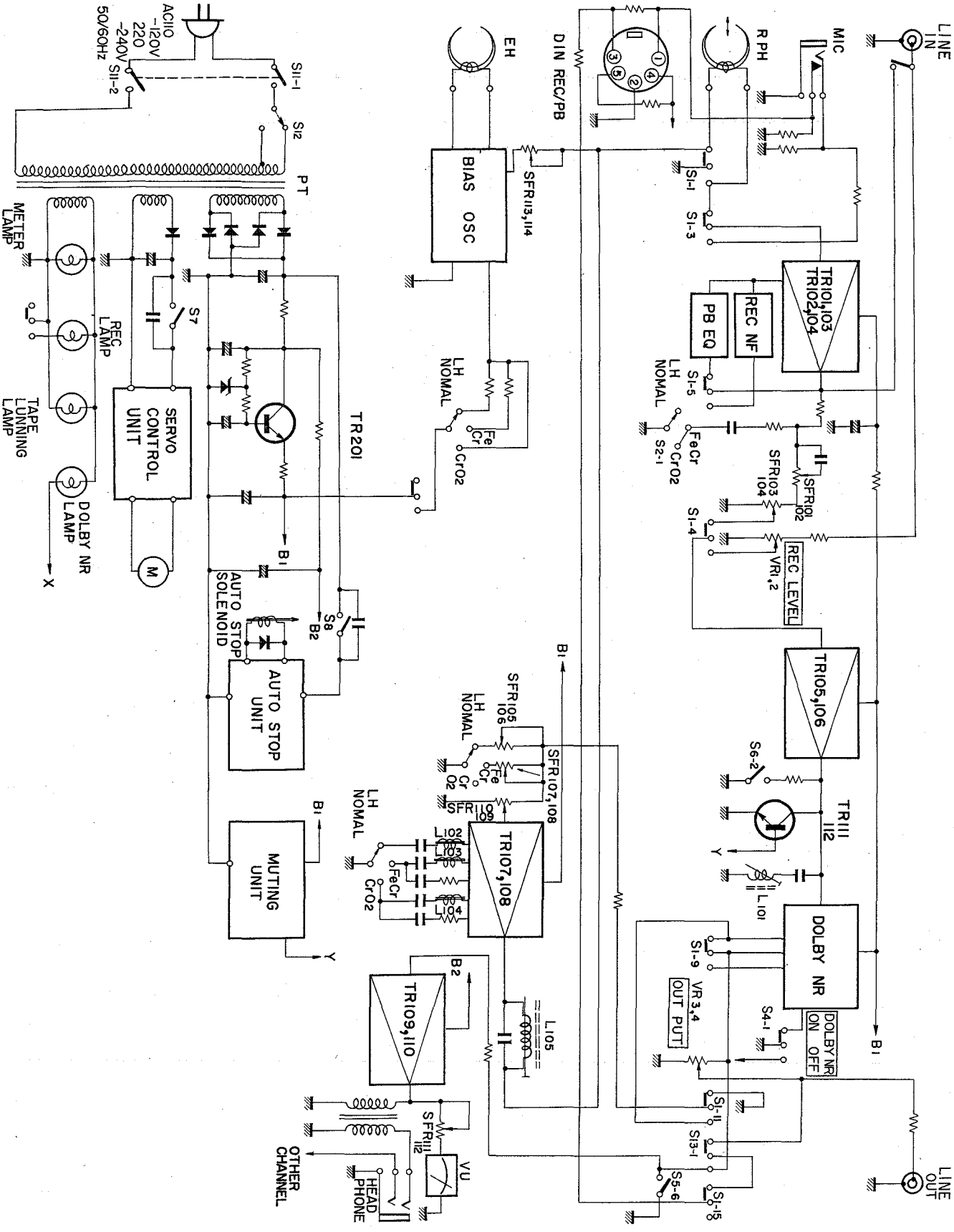


Fig. 6

BLOCK DIAGRAM



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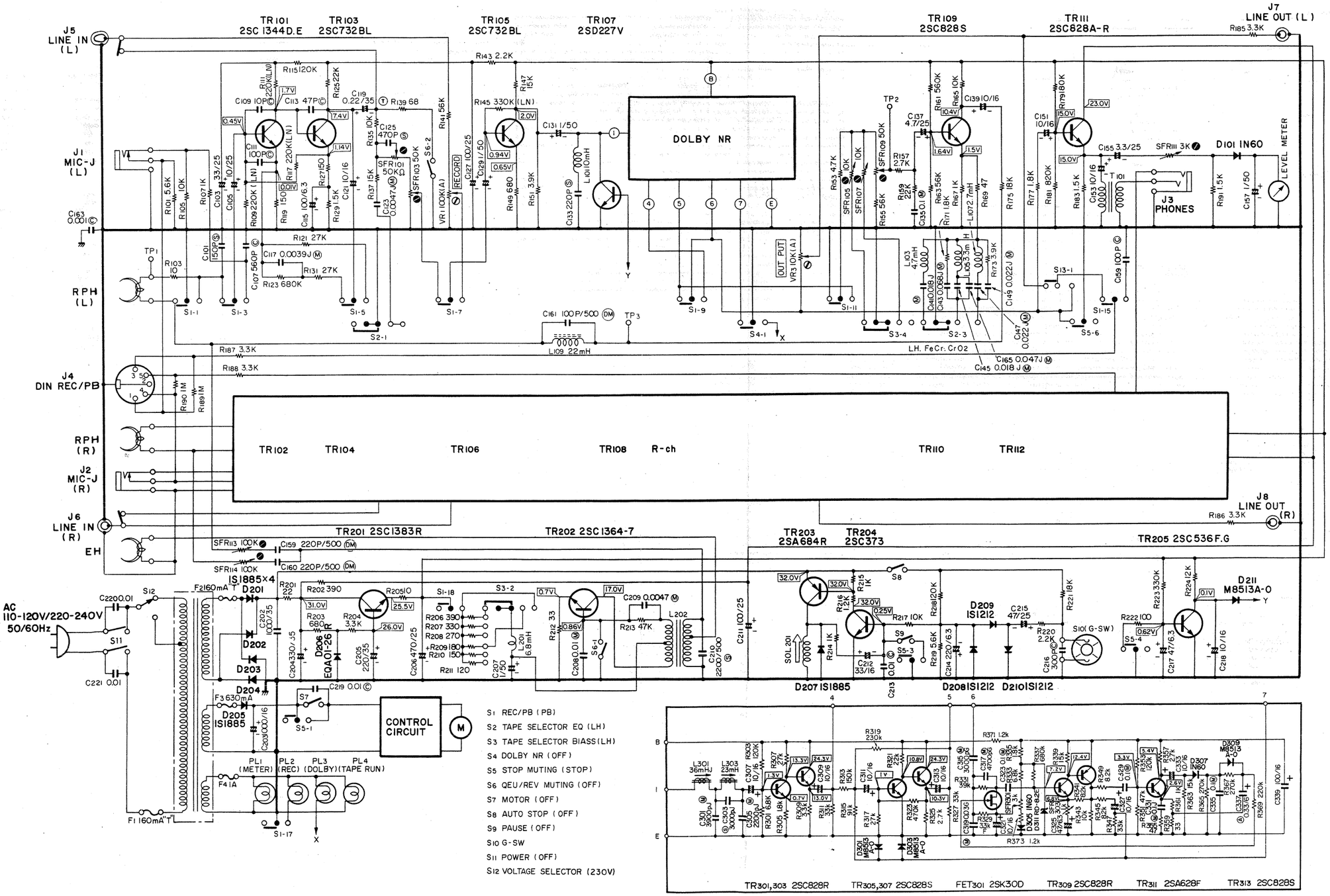
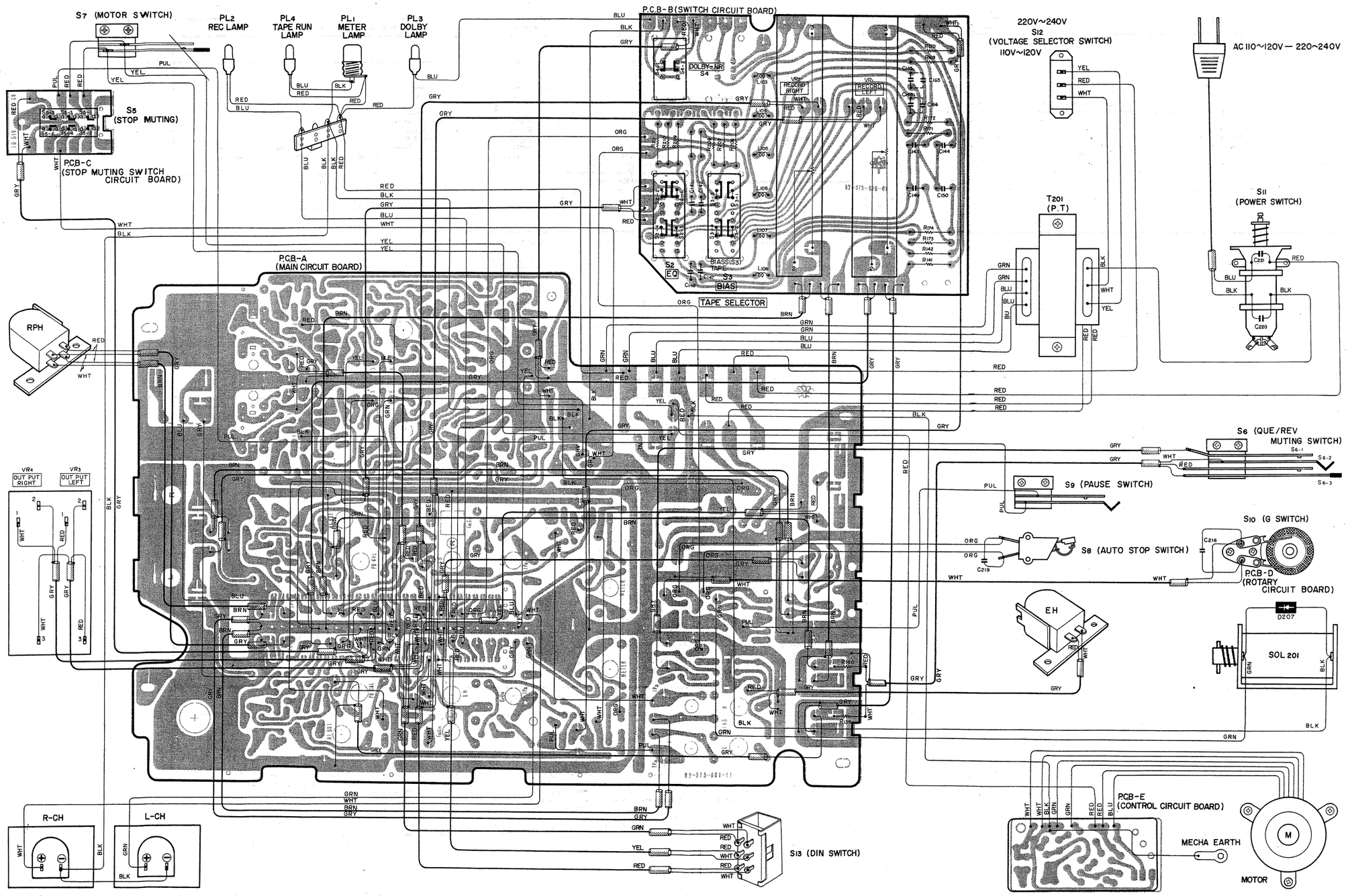
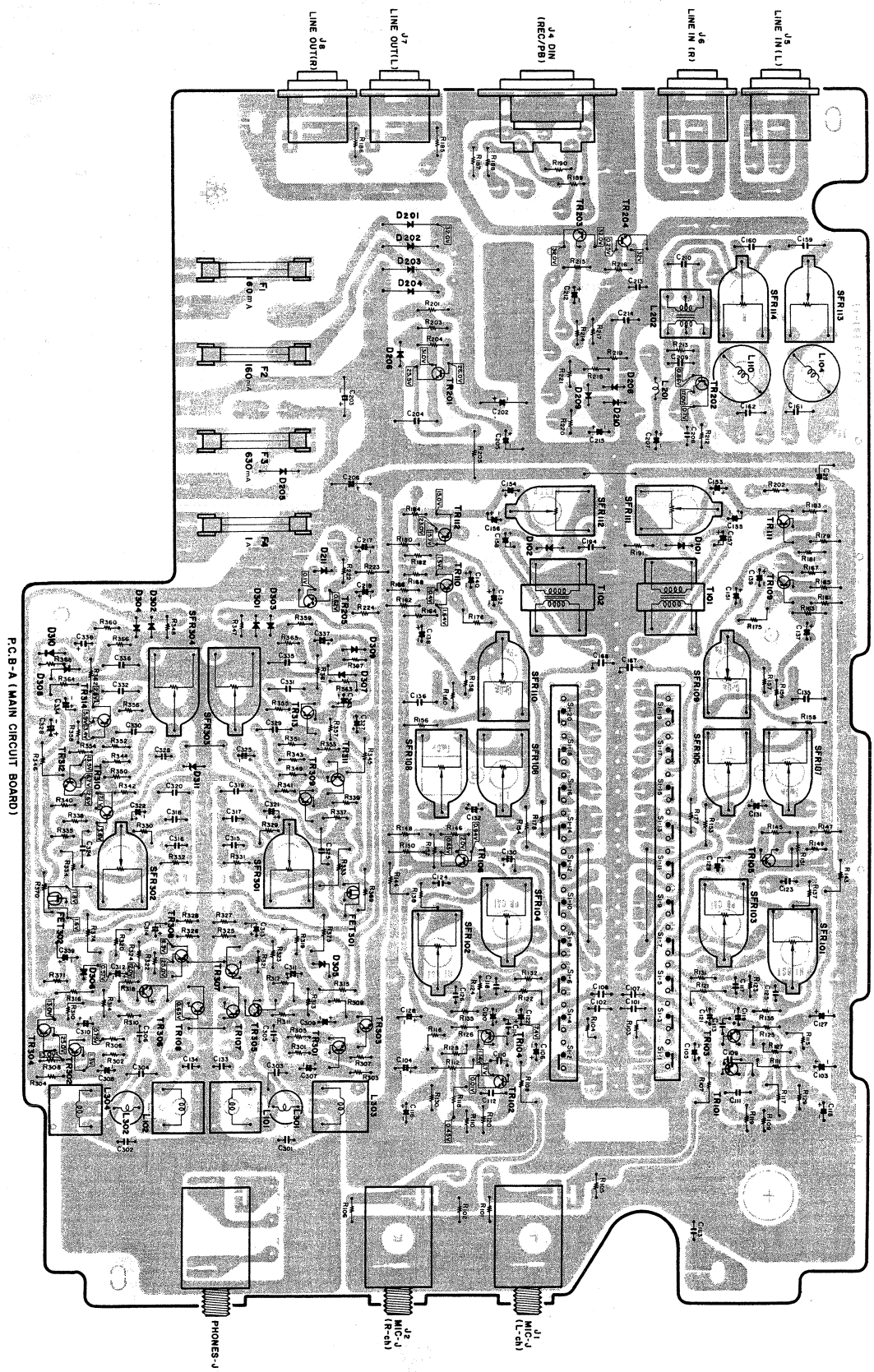
SCHEMATIC DI AGRAM



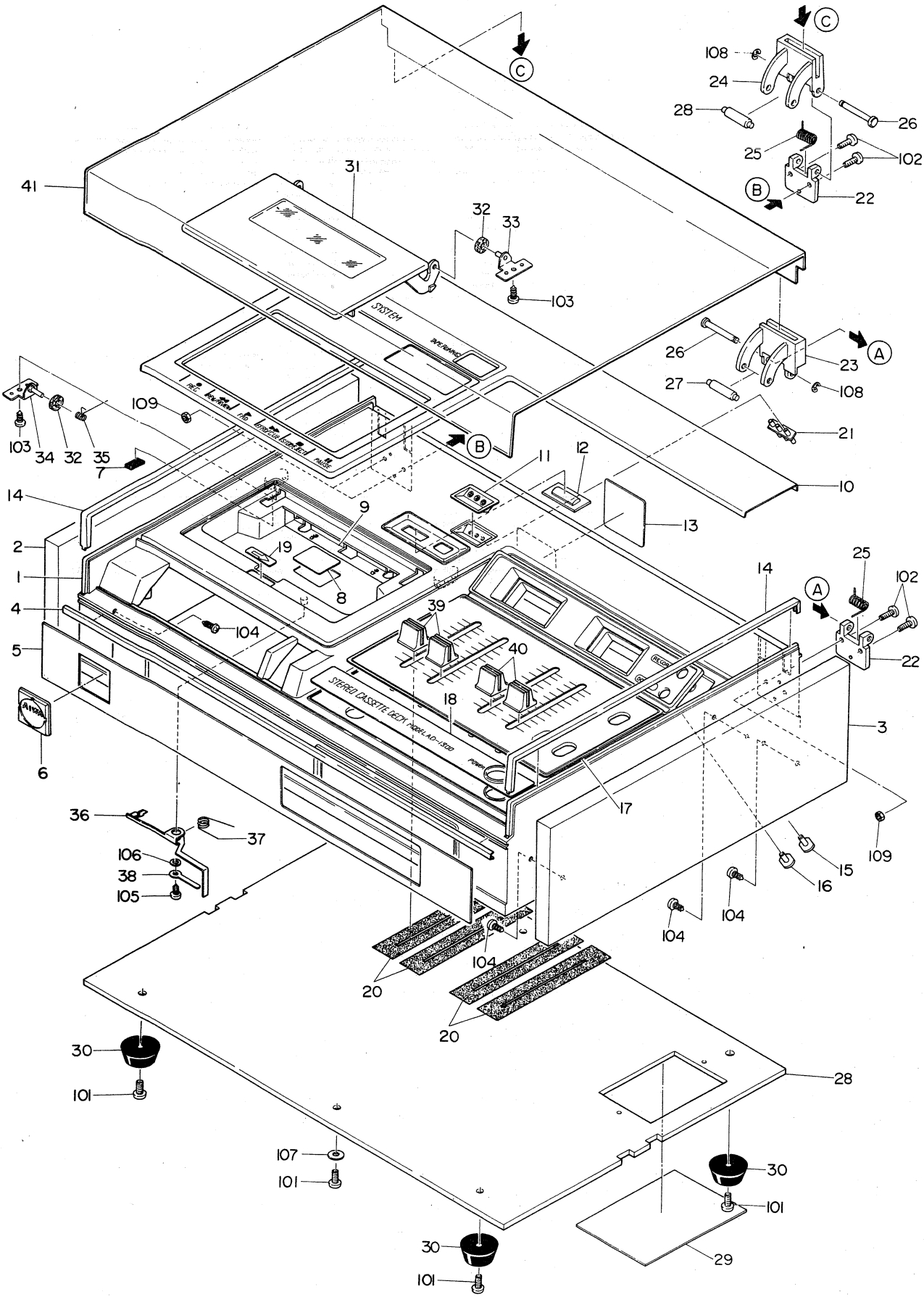
PRINTED CIRCUIT BOARD



MAIN CIRCUIT BOARD



EXPLODED VIEW-1



PARTS LIST

MECHANICAL PARTS

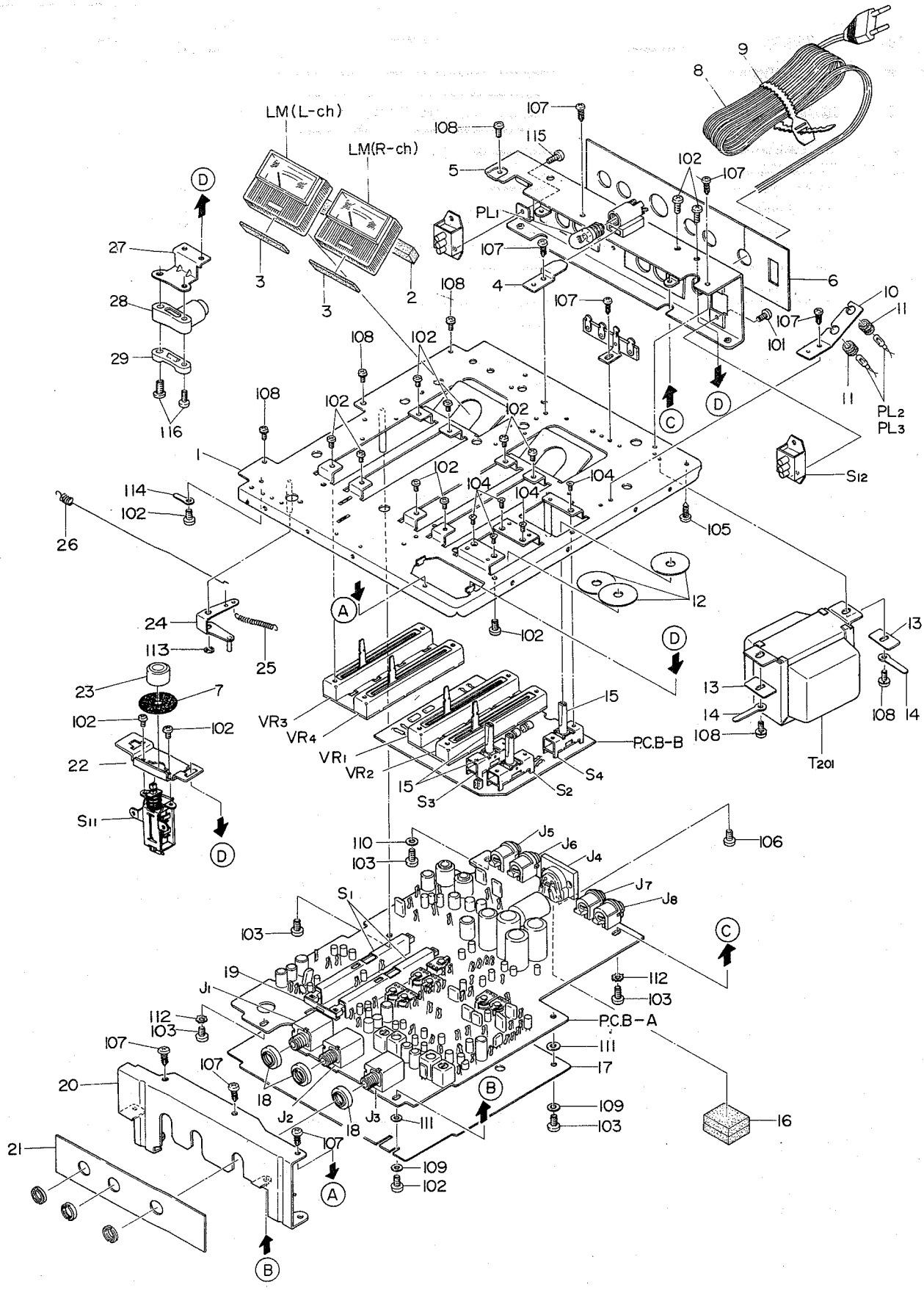
■ * mark in this part list shows exclusive part (which is used) for only Model AD-1300.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1~30	80-003-750-41		Cabinet Assembly (Main case ass'y + Bottom cover ass'y) - EE model		
1~30	80-003-750-01		Cabinet Assembly (Main case ass'y + Bottom cover ass'y) - UK model		
1~28	80-003-751-41		Main case ass'y - EE model		
1~28	80-003-751-01		Main case ass'y - UK model		
1-1	82-374-002-01		Case proper	AD-1200	1
1-2	82-374-040-01		Side board, Left	AD-1200	1
1-3	82-374-038-01		Slide board, Right	AD-1200	1
1-4	82-374-011-01		Decorative plate, Front	AD-1200	1
1-5	82-375-037-01		Name plate E, Front	*	1
1-6	87-054-062-01		Name plate, AIWA badge		1
1-7	82-370-361-01		Cushion, Rubber		1
1-8	82-277-024-01		Label, Tape indicator		1
1-9	82-370-003-01		Cassette bottom plate		1
1-10	82-375-036-01		Top panel	*	1
1-11	82-375-030-01		Name plate, Tape running	*	1
1-12	82-272-008-01		Window, Tape counter		1
1-13	82-375-022-01		Name plate, Spec.	*	1
1-14	82-374-010-01		Decorative plate, Side	AD-1200	2
1-15	82-457-011-01		Lens, Red	TPR-3001	1
1-16	82-457-036-01		Lens, Orange	TPR-3001	1
1-17	82-375-043-01		Name Plate, Volume B	*	1
1-18	82-375-029-01		Top panel D	*	1
1-19	82-374-024-01		Name plate, ⇒	AD-1200	1
1-20	82-374-242-01		Cloth, Volume	AD-1200	4
1-21	82-375-041-01		Tape run window ass'y	*	1
1-22	82-376-013-01		Hinge C		2
1-23	82-376-011-01		Hinge A		1
1-24	82-376-012-01		Hinge B		1
1-25	82-376-203-01		Spring, Hinge		2
1-26	82-376-204-01		Hinge shaft A		2
1-27	82-376-205-01		Hinge shaft B		2
28~29	80-003-752-41		Bottom cover ass'y - EE model		
28~29	80-003-752-01		Bottom cover ass'y - UK model		
1-28	82-374-003-01		Bottom cover	AD-1200	1
1-29	82-375-046-01		Trans cover		1
1-30	87-085-061-01		Rubber leg		4
1-31	82-375-032-01		Cassette lid B	*	1
1-32	82-374-267-01		Felt, Cassette lid	AD-1200	2
1-33	82-374-210-01		Supporting plate right ass'y, Cassette lid	AD-1200	1
1-34	82-374-213-01		Supporting plate left ass'y, Cassette lid	AD-1200	1
1-35	82-374-229-01		Spring, Cassette lid	AD-1200	1
1-36	82-374-265-01		Lock plate B, Cassette lid	AD-1200	1
1-37	82-370-323-01		Lock spring, Cassette lid		1
1-38	82-374-262-01		Lock plate terminal, Cassette lid	AD-1200	1
1-39	82-375-045-11		Volume knob (WHT)	*	2
1-40	82-375-044-11		Volume knob (RED)	*	2
1-41	82-374-046-01		Dust cover	AD-1200	1

Ref. No.	Part No.	Description	Q'ty
1-101	87-263-096-11	V + 3-10	6
1-102	87-259-096-11	U + 3-10	4
1-103	87-351-095-01	VT_1 + 3-8	2
1-104	87-351-097-01	VT_2 + 3-12	6
1-105	87-344-072-01	UT_2 + 2.6-5	1

Ref. No.	Part No.	Description	Q'ty
1-106	82-283-323-01	W 5.2mmϕ diam.	1
1-107	87-081-448-01	W 3mmϕ diam.	2
1-108	87-441-007-01	STE - 2.5	2
1-109	87-391-018-01	N-3mmϕ diam.	4

EXPLODED VIEW–2

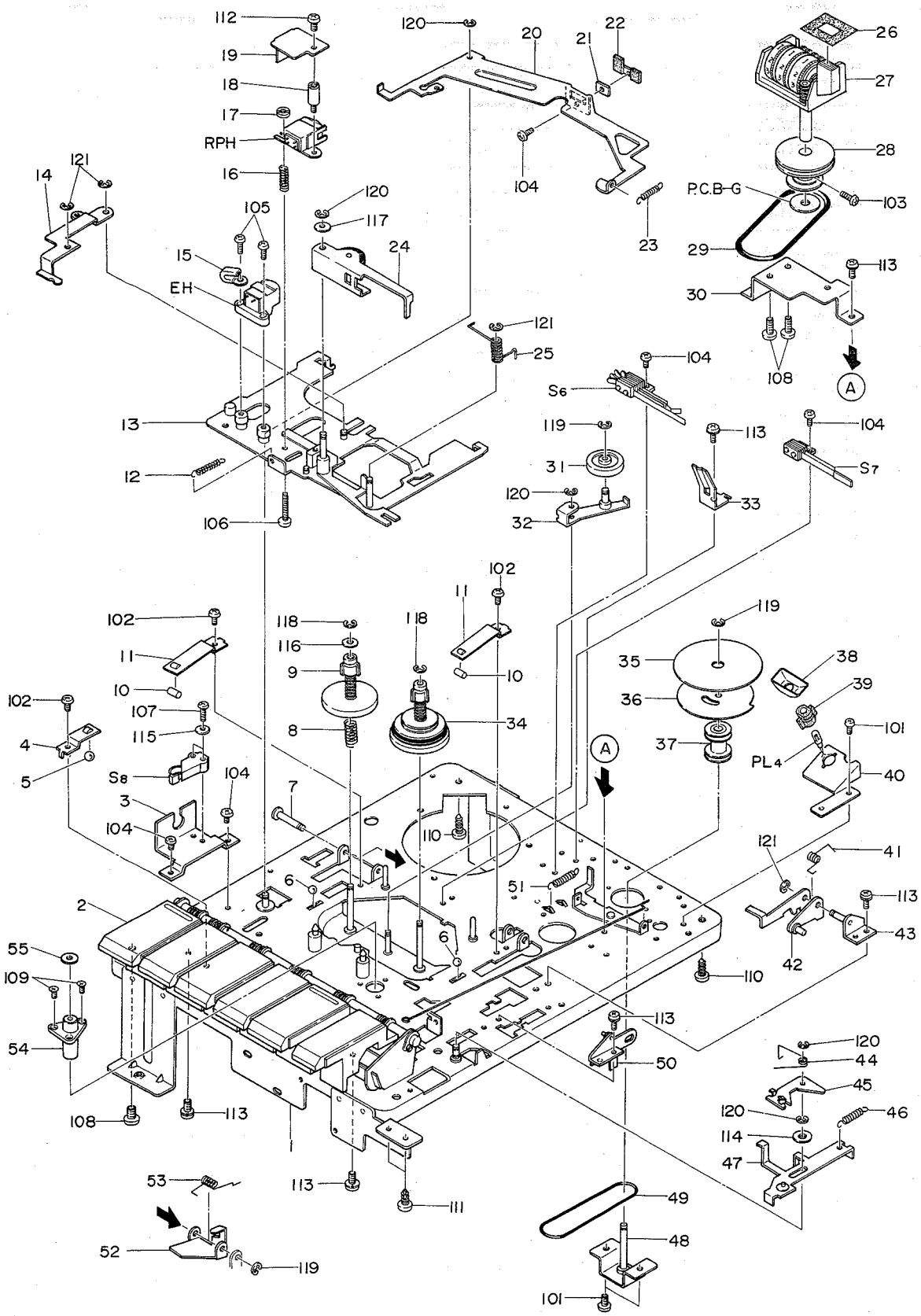


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-375-201-01		Amp. chassis ass'y	*	1
2-2	82-374-235-01		Cushion B, Meter	AD-1200	2
2-3	82-374-234-01		Cushion A, Meter	AD-1200	2
2-4	82-374-216-01		Lamp holder	AD-1200	1
2-5	82-375-237-01		Jack plate ass'y	*	1
2-6	82-375-021-01		Name plate, Jack	*	1
2-7	82-375-241-01		AC switch holder cover	*	1
2-8	87-034-069-01		AC power cord		1
2-9	87-058-009-01		Free-up belt		1
2-10	82-374-257-01		Lamp holder C	AD-1200	1
2-11	87-087-027-01		Cushion, Rubber		2
2-12	82-374-261-01		Switch cover	AD-1200	3
2-13	82-374-281-01		Washer, Trans.	AD-1200	2
2-14	87-038-007-01		Binder, Lead wire		1
2-15	82-374-050-01		Knob, Selector	*	3
2-16	82-372-412-01		Holder cushion, Circuit board	AD-1500	2
2-17	82-375-605-01		Shield paper		1
2-18	82-374-238-01		Spacer, MIC jack	AD-1200	3
2-19	82-371-474-01		Pressure plate, Record switch		1
2-20	82-374-206-01		Jack plate, Front	AD-1200	1
2-21	82-375-242-01		Jack name plate, Front	*	1
2-22	82-374-232-01		AC switch holder	*	1
2-23	82-374-012-01		Power button ass'y	AD-1200	1
2-24	82-375-207-01		Record relay lever ass'y	*	1
2-25	82-370-319-01		Spring, CrO_2 selecting lever		1
2-26	82-375-220-01		Spring, Record	*	1
2-27	82-374-232-01		Holder plate	AD-1200	1
2-28	87-085-094-01		AC cord holder A		1
2-29	87-085-095-01		AC cord holder B		1

Ref. No.	Part No.	Description	Q'ty
2-101	87-253-091-11	U + 3-3	2
2-102	87-253-092-11	U + 3-4	14
2-103	87-253-094-11	U + 3-6	6
2-104	87-233-072-01	Q + 2.6-5	5
2-105	87-351-095-01	VT_1 + 3-8	1
2-106	87-351-094-01	VT_2 + 3-6	2
2-107	87-344-095-01	UT_2 + 3-8	8
2-108	87-483-094-01	VS + 3-6	6

Ref. No.	Part No.	Description	Q'ty
2-109	87-410-315-01	W 3mmϕ diam.	2
2-110	87-081-015-01	FW 3mmϕ diam.	1
2-111	87-081-017-01	FW 3mmϕ diam.	2
2-112	87-433-904-01	WIET - 3	2
2-113	87-441-009-01	STE - 3	1
2-114	87-450-414-01	LB - 4mmϕ diam.	1
2-115	87-263-072-01	U + 2.6-5	2
2-116	87-263-101-11	V + 3-18	2

EXPLODED VIEW-3

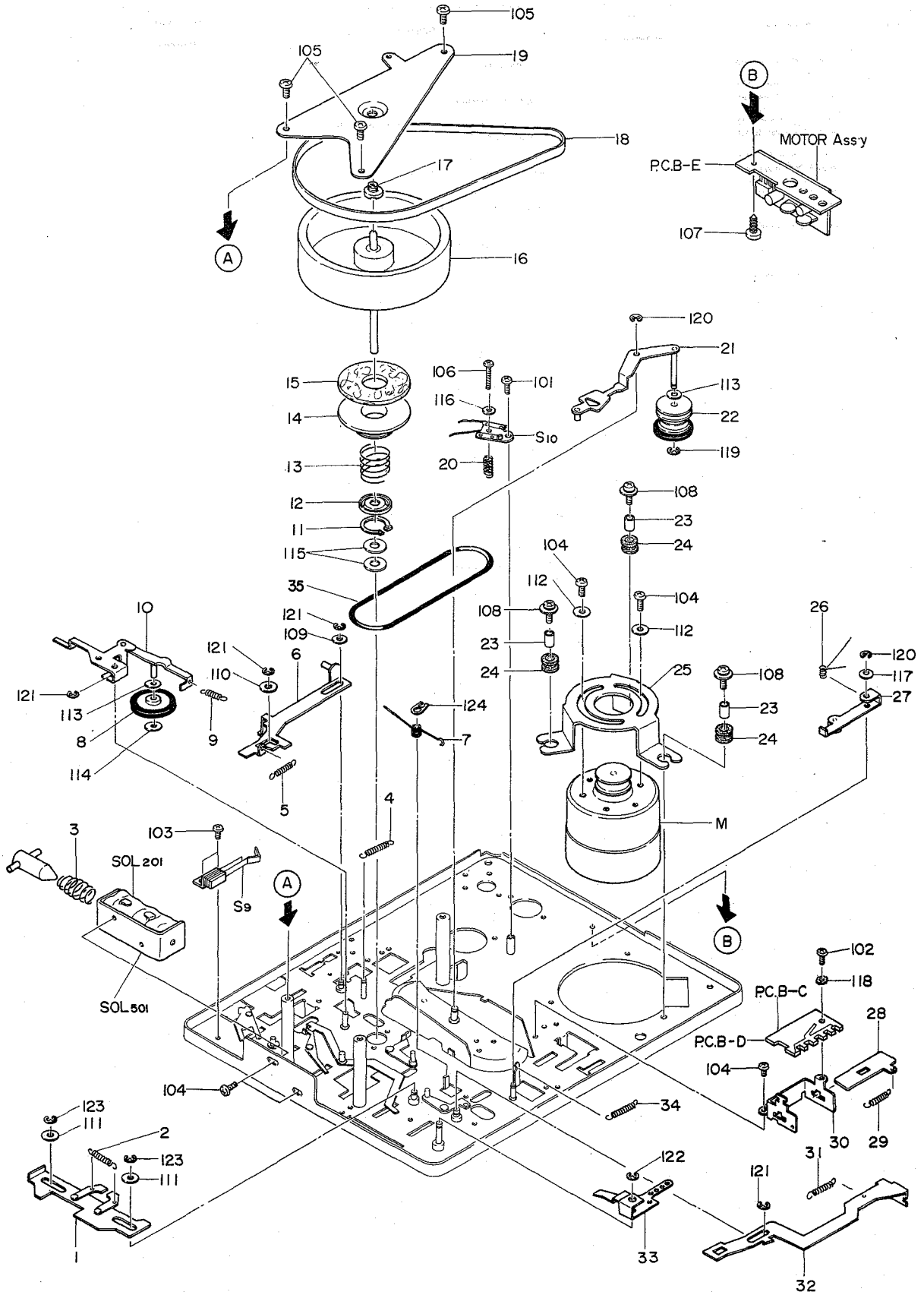


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-375-219-01		Chassis ass'y	*	1
3-2	82-374-223-01		Push switch ass'y	AD-1200	1
3-3	82-370-336-01		Switch holder		1
3-4	82-371-338-01		Pressure spring, Actuating chassis		1
3-5	82-603-340-01		Steel ball, 2ϕ		1
3-6	82-215-341-01		Steel ball, 3/32ϕ		2
3-7	82-370-306-01		Shaft, Interlock lever		1
3-8	82-374-277-01		Spring, Back tension	AD-1200	1
3-9	82-272-255-01		Reel platform B ass'y		1
3-10	82-603-305-01		Roller, 2.5ϕ		2
3-11	82-272-350-01		Pressure spring, Head base		2
3-12	82-374-241-01		Spring, Actuating lever	AD-1200	1
3-13	82-375-229-01		Actuating chassis S ass'y	*	1
3-14	82-370-351-01		Actuating lever		1
3-15	82-357-487-01		Holder D, Lead wire		1
3-16	82-261-275-01		Spring, Head adjuster		1
3-17	82-250-097-01		Screw, Head adjuster		1
3-18	82-374-272-01		Screw, Head cover	AD-1200	1
3-19	82-374-271-01		Head cover	AD-1200	1
3-20	82-370-376-01		Brake arm		1
3-21	82-272-438-01		Spacer		1
3-22	82-370-408-01		Brake		1
3-23	82-370-419-01		Spring, Brake arm		1
3-24	82-370-333-01		Pinch lever ass'y		1
3-25	82-374-278-01		Spring, Pinch lever	AD-1200	1
3-26	82-375-228-01		Himeron, Tape counter	*	1
3-27	87-040-068-01		Tape counter		1
3-28	82-374-237-01		Pulley, Tape counter	AD-1200	1
3-29	82-370-312-01		Belt, Tape counter		1
3-30	82-374-236-01		Holder, Tape counter	AD-1200	1
3-31	82-274-270-01		FF idler		1
3-32	82-272-291-01		Rewind lever ass'y		1
3-33	82-370-304-01		Pressure spring, Cassette		1
3-34	82-374-255-01		Reel platform C ass'y		1
3-35	82-375-233-01		Shadow plate C	*	1
3-36	82-375-211-01		Shadow plate ass'y	*	1
3-37	82-422-230-01		Relay pulley		1
3-38	82-422-283-01		Reflector mirror		1
3-39	82-375-227-01		Bushing, Tape run	*	1
3-40	82-375-218-01		Shadow table	*	1
3-41	82-370-398-01		Spring, Cassette-up lever		1
3-42	82-370-274-01		Cassette-up lever ass'y		1
3-43	82-370-277-01		Supporting metal ass'y, Cassette-up		1
3-44	82-370-264-01		Spring, Lock plate		1
3-45	82-370-262-01		Lock plate		1/4
3-46	82-370-314-01		Spring, Pause lever		1
3-47	82-370-291-01		Pause lever ass'y		1
3-48	82-375-208-01		Shadow shaft ass'y	*	1
3-49	82-375-213-01		Belt, Shadow	*	1
3-50	82-370-387-01		Cassette-up ass'y		1
3-51	82-370-379-01		Spring, Switch pressure plate		1
3-52	82-371-323-01		Record safety lever		1
3-53	82-371-356-01		Spring, Interlock lever		1
3-54	82-370-253-01		Shaft bearing ass'y		1
3-55	82-283-351-01		Poly-slider washer		1

Ref. No.	Part No.	Description	Q'ty
3-101	87-263-071-01	V + 2.6-4	3
3-102	87-263-070-01	V + 2.6-3	3
3-103	87-263-036-01	V + 2-8	1
3-104	87-253-032-01	U + 2-3	7
3-105	87-253-034-01	U + 2-5	2
3-106	87-253-039-01	U + 2-14	1
3-107	87-253-036-01	U + 2-8	2
3-108	87-253-092-11	U + 3-4	3
3-109	87-233-033-01	Q + 2-4	3
3-110	87-351-095-01	VT_1 + 3-8	2
3-111	87-344-095-01	UT_2 + 3-8	2

Ref. No.	Part No.	Description	Q'ty
3-112	87-480-033-01	VS + 2-4	1
3-113	87-483-072-01	VS + 2.6-5	9
3-114	87-410-314-01	W 3mmϕ diam.	1
3-115	87-081-030-01	FW 2mmϕ diam.	2
3-116	82-215-207-01	TW 1.6mmϕ diam.	2
3-117	87-081-036-01	TW 2mmϕ diam.	1
3-118	87-082-001-01	STE - 0.95	2
3-119	87-441-003-01	STE - 1.5	3
3-120	87-441-005-01	STE - 2	5
3-121	87-441-006-01	STE - 2.3	4

EXPLODED VIEW-4

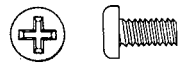


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	82-370-374-01		Main drive lever ass'y		1
4-2	82-272-326-01		Spring, FR		1
4-3	82-370-417-01		Spring, Plunger		1
4-4	82-370-418-01		Spring C, Return		2
4-5	82-374-273-01		Spring, Stop lever	AD-1200	1
4-6	82-370-288-01		Stop lever ass'y		1
4-7	82-272-327-01		Spring, Shift		1
4-8	82-272-372-01		Play idler ass'y		1
4-9	82-370-383-01		Spring, play idler		1
4-10	82-370-391-01		Idler lever ass'y		1
4-11	87-082-004-01		Shaft for "C" ring		1
4-12	82-272-440-01		Washer, Flywheel		1
4-13	82-370-413-01		Spring, Flywheel		1
4-14	82-272-368-01		Pulley, Flywheel		1
4-15	82-370-422-01		Felt, Flywheel		1
4-16	82-370-250-01		Flywheel ass'y		1
4-17	82-272-335-01		Screw for thrust		1
4-18	82-370-414-01		Belt, Main		1
4-19	82-370-298-01		Bearing plate, Flywheel		1
4-20	82-370-394-01		Spring, G switch		1
4-21	82-272-273-01		FR lever ass'y		1
4-22	82-938-276-01		FR pulley ass'y		1
4-23	82-371-318-01		Motor collar A		3
4-24	82-416-299-01		Rubber cushion		3
4-25	82-375-234-01		Holder, Motor	*	1
4-26	82-370-313-01		Spring, Record lock lever		1
4-27	82-370-347-01		Record lock lever ass'y		1
4-28	82-374-249-01		Auxiliary plate B, Switch	AD-1200	1
4-29	82-374-279-01		Spring D, Return	AD-1200	1
4-30	82-374-248-01		Holder C, Switch	AD-1200	1
4-31	82-272-424-01		Spring, Brake		1
4-32	82-370-352-01		Record lever		1
4-33	82-374-246-01		Relay lever, Record	AD-1200	1
4-34	82-370-418-01		Spring C, Return		2
4-35	82-272-311-01		Belt, FR		1

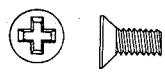
Ref. No.	Part No.	Description	Q'ty
4-101	87-263-033-01	V + 2-4	1
4-102	87-263-071-01	V + 2.6-4	1
4-103	87-253-032-01	U + 2-3	2
4-104	87-253-070-01	U + 2.6-3	6
4-105	87-253-094-11	U + 3-6	3
4-106	87-253-038-01	U + 2-12	1
4-107	87-483-094-11	VS + 3-6	1
4-108	87-490-096-11	TWS + 3-10	3
4-109	87-410-313-01	W 3mmφ diam.	1
4-110	87-410-315-01	W 3mmφ diam.	1
4-111	87-410-323-01	W 4mmφ diam.	2
4-112	87-410-311-01	W 2.6mmφ diam.	2

Ref. No.	Part No.	Description	Q'ty
4-113	87-081-036-01	TW 2mmφ diam.	2
4-114	87-081-209-01	TW 2mmφ diam.	1
4-115	87-081-319-01	TW 2.3mmφ diam.	4
4-116	87-081-030-01	FW 2mmφ diam.	1
4-117	86-604-019-01	W 2.5mmφ diam.	1
4-118	87-433-903-01	WTIE - 2.6	1
4-119	87-441-003-01	STE - 1.5	1
4-120	87-441-005-01	STE - 2	2
4-121	87-441-006-01	STE - 2.3	4
4-122	87-441-009-01	STE - 3	1
4-123	87-441-010-01	STE - 3.2	2
4-124	87-442-003-01	STP - 3	1

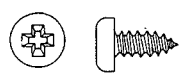
HARDWARE NOMENCLATURE

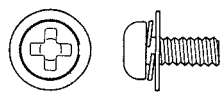
V: Pan head screw 

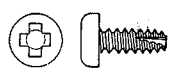
U: Binding head screw

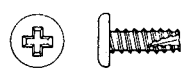
Q: Flat countersunk head screw 

VS: Pan head screw with spring washer

VT_1: Pan head tapping screw 

VWS: Pan head screw w/ spring washer and washer 

VT_2: Pan head tapping screw 

UT_2: Binding head tapping screw 

STE: E ring (washer)

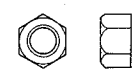
STP: Powerful stop ring

W: Washer

TW: Tefron washer

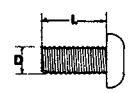
F W: Fibre washer

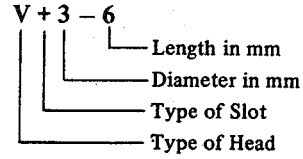
WTIE: Crown washer

N: Nut 

LB: Lug terminal plate

Example:





ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1	87-058-012-01		Head cleaning pole ass'y		1	
2	80-291-645-01		Tape cassette, DMC-130A		1	
3	80-692-580-01		Connection cord, CW-115		1	
4	87-058-009-01		Free-up belt		1	
5	82-375-903-01		Instruction booklet	*	1	
6	87-057-879-01		Red label (EE model only)		1	
7	87-051-084-01		Poly-vinyl sack		1	
8	87-051-172-01		Poly-vinyl sack (for case)		1	
9	87-051-131-01		Poly-vinyl sack (for AC cord)		1	
10	87-051-141-01		Poly-vinyl sack (for dust cover)		1	
11	82-375-854-01		Printed indiv. packing	*	1	
12	82-376-853-01		Cushion, Printed indiv.		2	
13	82-376-854-01		Cushion, Auxiliary (for dust cover)		1	
14	82-374-856-01		External carton box	AD-1200	1/3	

ELECTRICAL PARTS

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
≪MAIN CIRCUIT BOARD SECTION≫					
PCB-A	82-375-601-01		Main circuit board	*	1
TR101,102	89-313-444-51		Transistor, 2SC-1344 (D, E)		2
TR103,104,105, 106	89-307-326-01		Transistor, 2SC-732 (BL)		4
TR107,108	89-402-275-01		Transistor, 2SD-227 (V)		2
TR109,110,305, 306,307,308, 313,314	89-308-285-01		Transistor, 2SC-828 (S)		8
TR111,112	87-027-111-01		Transistor, 2SC-828 (A-R)		2
TR201	89-313-833-01		Transistor, 2SC-1383 (R)		1
TR202	89-313-647-01		Transistor, 2SC-1364-7		1
TR203	89-106-844-01		Transistor, 2SA-684 (R)		1
TR204	89-303-730-01		Transistor, 2SC-373		1
TR205	89-305-366-01		Transistor, 2SC-536 (F, G)		1
TR301,302,303, 304,309,310	89-308-284-01		Transistor, 2SC-828 (R)		6
TR311,312	89-106-285-01		Transistor, 2SA-628 (F)		2
FET301,302	82-371-625-01		FET, 2SK-30 (D)		2
D101,102,305, 306,307,308	88-051-060-01		Diode, 1N-60		6
D201~205	87-027-083-01		Diode, 1S-1885		5
D206	82-375-617-01		Zener diode, EQA01-26(R)		1
D208,209,210	87-027-025-01		Diode, 1S-1212		3
D211,301,302, 303,304,309, 310	87-026-066-01		Diode, M-8513 (A-O)		7
D311	82-371-647-01		Zener diode, RD-8.2 (E)		1
T101,102	82-370-610-01		Matching transformer		2
L101,102	82-938-640-01		Coil, 10mH		2
L109,110	82-371-644-01		Coil, 22mH		2
L201	82-371-648-01		Micro inductor, 6.8mH		1
L202	82-375-618-01		OSC coil		1
L301,302	82-372-625-01		Coil, 36mH		2
L303,304	82-371-622-01		Coil, 23mH		2
S1	82-371-620-01		Slide switch (REC/PB)		2
J1,2	87-032-461-01		Mic jack 6.3ϕ		2
J3	87-032-497-01		Headphone jack		1
J4	87-032-498-01		DIN socket		1
J5,7	87-032-508-01		Pin jack-WHIT (LINE IN-L, LINE OUT-L)		2
J6,8	87-032-509-01		Pin jack-RED (LINE IN-R, LINE-OUT-R)		2
SFR101,102, 103,104, 109,110	87-021-391-01		Semi-fixed resistor, 50kΩ		6
SFR105,106, 107,108	87-021-387-01		Semi-fixed resistor, 10kΩ		4
SFR111,112, 301,302	87-021-385-01		Semi-fixed resistor, 3kΩ		4
SFR113,114	87-021-388-01		Semi-fixed resistor, 100kΩ		2
SFR303,304	87-021-410-01		Semi-fixed resistor, 1kΩ		2
	87-033-092-01		PCB tab A		5
			<Resistors>		
R103,104,205	88-181-100-01		10Ω 1/4W ±5% ELR		3
R212,359,360	88-181-330-01		33Ω 1/4W ±5% ELR		3
R355,356	88-181-470-01		47Ω 1/4W ±5% ELR		2
R222	88-181-101-01		100Ω 1/4W ±5% ELR		1
R119,120,127, 128	88-181-151-01		150Ω 1/4W ±5% ELR		4
R202	88-181-391-01		390Ω 1/4W ±5% ELR		1
R149,150,203	88-181-681-01		680Ω 1/4W ±5% ELR		3
R107,108,167, 168,214,215, 361,362	88-181-102-01		1kΩ 1/4W ±5% ELR		8

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
R216,371,373, 374	88-181-122-01		1.2kΩ 1/4W ±5% ELR		4
R129,130,183, 184,191,192	88-181-152-01		1.5kΩ 1/4W ±5% ELR		6
R177,178,305, 306,335	88-181-182-01		1.8kΩ 1/4W ±5% ELR		5
R143,144,220	88-181-222-01		2.2kΩ 1/4W ±5% ELR		3
R157,158,325, 326,357,358	88-181-272-01		2.7kΩ 1/4W ±5% ELR		6
R185,186,187, 188,204,309, 310	88-181-332-01		3.3kΩ 1/4W ±5% ELR		7
R151,152	88-181-392-01		3.9kΩ 1/4W ±5% ELR		2
R153,154	88-181-472-01		4.7kΩ 1/4W ±5% ELR		2
R101,102,209	88-181-562-01		5.6kΩ 1/4W ±5% ELR		3
R301,302,333, 334	88-181-682-01		6.8kΩ 1/4W ±5% ELR		4
R341,342,345, 346,349,350	88-181-822-01		8.2kΩ 1/4W ±5% ELR		6
R105,106,135, 136,165,166, 217,343 344	88-181-103-01		10kΩ 1/4W ±5% ELR		9
R224	88-181-123-01		12kΩ 1/4W ±5% ELR		1
R137,138,139, 140,147,148, 363,364	88-181-153-01		15kΩ 1/4W ±5% ELR		8
R175,176,221	88-181-183-01		18kΩ 1/4W ±5% ELR		3
R125,126,159, 160,321,322	88-181-223-01		22kΩ 1/4W ±5% ELR		6
R121,122,131, 132,307,308, 317,318	88-181-273-01		27kΩ 1/4W ±5% ELR		8
R311,312,327 328,347,348	88-181-333-01		33kΩ 1/4W ±5% ELR		6
R331,332	88-181-393-01		39kΩ 1/4W ±5% ELR		2
R213,351,352	88-181-473-01		47kΩ 1/4W ±5% ELR		3
R155,156,163, 164	88-181-563-01		56kΩ 1/4W ±5% ELR		4
R315,316	88-181-913-01		91kΩ 1/4W ±5% ELR		2
R115,116,218, 303,304,353, 354	88-181-124-01		120kΩ 1/4W ±5% ELR		7
R313,314	88-181-154-01		150kΩ 1/4W ±5% ELR		2
R179,180	88-181-184-01		180kΩ 1/4W ±5% ELR		2
R369,370	88-181-224-01		220kΩ 1/4W ±5% ELR		2
R319,320	88-181-234-01		230kΩ 1/4W ±5% ELR		2
R365,366,367, 368	88-181-274-01		270kΩ 1/4W ±5% ELR		4
R223	88-181-334-01		330kΩ 1/4W ±5% ELR		1
R323,324	88-181-474-01		470kΩ 1/4W ±5% ELR		2
R161,162	88-181-564-01		560kΩ 1/4W ±5% ELR		2
R337,338,123, 124	88-181-684-01		680kΩ 1/4W ±5% ELR		4
R181,182	88-181-824-01		820kΩ 1/4W ±5% ELR		2
R189,190	88-181-105-01		1MΩ 1/4W ±5% ELR		2
R109,110,111, 112,117,118	88-183-224-01		220kΩ 1/4W ±10% NL		6
R145,146	88-183-334-01		330kΩ 1/4W ±10% NL		2
R201	88-144-220-01		22Ω 1/2W ±10%		1
R329,330	82-371-645-01		3.3kΩ ±1%		2
			<Capacitors>		
C129,130,131, 132,157,158, 207	88-337-104-01		1μF 50V Electrolytic		7

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
C205	88-344-224-01		220μF 35V Electrolytic		1
C204	88-344-320-01		330μF 35V Electrolytic		1
C202	88-344-134-01		1000μF 35V Electrolytic		1
C155,156	88-336-304-01		3.3μF 25V Electrolytic		2
C105,106	87-015-247-01		10μF 25V Electrolytic		2
C137,138	88-336-504-01		4.7μF 25V Electrolytic		2
C103,104	88-336-314-01		33μF 25V Electrolytic		2
C215	88-336-514-01		47μF 25V Electrolytic		1
C127,128,211	88-336-124-01		100μF 25V Electrolytic		3
C206	88-336-524-01		470μF 25V Electrolytic		1
C121,122,139, 140,151,152, 153,154,218, 307,308,309, 310,311,312, 313,314,321, 322,327,328, 333,334	88-335-114-01		10μF 16V Electrolytic		23
C212	88-335-314-01		33μF 16V Electrolytic		1
C339	88-335-124-01		100μF 16V Electrolytic		1
C203	88-335-134-01		1000μF 16V Electrolytic		1
C217,325,326	88-332-514-01		47μF 6.3V Electrolytic		3
C115,116	88-332-124-01		100μF 6.3V Electrolytic		2
C214	88-332-224-01		220μF 6.3V Electrolytic		1
C119,120	87-015-260-01		0.22μF 35V Tantalum		2
C337,338	87-015-261-01		0.33μF 35V Tantalum		2
C101,102	88-507-450-01		150pF Styrol		2
C133,134	88-507-480-01		220pF Styrol		2
C125,126	88-507-550-01		470pF Styrol		2
C303,304	88-507-690-01		3000pF Styrol		2
C210	88-658-660-01		2200pF Styrol		1
C135,136,323, 324,329,330, 335,336	88-717-910-01		0.1μF Mylar		8
C208	88-717-810-01		0.01μF Mylar		1
C209	88-717-720-01		0.0047μF Mylar		1
C331,332	88-707-910-01		0.1μF Mylar		2
C305,306	88-707-660-01		0.0022μF Mylar		2
C117,118,301, 302	88-707-710-01		0.0039μF Mylar		4
C123,124	88-707-720-01		0.0047μF Mylar		2
C109,110	88-212-100-01		10pF Ceramic		2
C113,114	88-212-290-01		47pF Ceramic		2
C111,112,167, 168	88-212-410-01		100pF Ceramic		4
C107,108	88-212-560-01		560pF Ceramic		2
C213	88-214-810-01		0.01μF Ceramic		1
C163	88-214-610-01		0.001μF Ceramic		1
C161,162	87-968-410-01		100pF Dept mica		2
C159,160	87-968-480-01		220pF Dept mica		2
C319,320	82-375-609-01		0.03μF Polypropylene		2
C315,316	82-375-608-01		0.003μF Polypropylene		2
C317,318	82-371-643-01		0.0047μF Polypropylene		2
≪SWITCH CIRCUIT BOARD SECTION≫					
PCB-B	82-375-616-01		Switch circuit board	*	1
L103,104	87-005-093-01		Micro inductor, 4.7mH		2
L105,106	87-005-091-01		Micro inductor, 3.3mH		2
L107,108	87-005-090-01		Micro inductor, 2.7mH		2
S2,3	82-374-612-01		Lever switch (Tape selector)	AD-1200	2
S4	82-374-613-01		Lever switch (Dolby NR)	AD-1200	1
			<Resistors>		
R169,170	88-131-470-01		47Ω 1/4W ±5%		2
R211	88-131-121-01		120Ω 1/4W ±5%		1

Symbol No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
R210	88-131-151-01		150Ω 1/4W ±5%		1
R209	88-131-181-01		180Ω 1/4W ±5%		1
R208	88-131-271-01		270Ω 1/4W ±5%		1
R207	88-131-331-01		330Ω 1/4W ±5%		1
R206	88-131-391-01		390Ω 1/4W ±5%		1
R171,172	88-131-182-01		1.8kΩ 1/4W ±5%		2
R173,174	88-131-392-01		3.9kΩ 1/4W ±5%		2
R141,142	88-131-563-01		56kΩ 1/4W ±5%		2
			<Capacitors>		
C141,142,145, 146	88-707-880-01		0.018μF Mylar		4
C147,148,149, 150	88-707-830-01		0.022μF Mylar		4
C143,144	88-707-860-01		0.068μF Mylar		2
C165,166	88-707-720-01		0.0047μF Mylar		2
≪STOP MUTING CIRCUIT BOARD SECTION≫					
PCB-C	82-375-601-01		Stop muting circuit board		1
S5	87-031-239-01		Slide switch (Stop muting)		1
≪MISCELLANEOUS≫					
D207	87-027-083-01		Diode, 1S-1885		1
T201	82-375-614-01		Power transformer	*	1
SOL201	82-370-616-01		Solenoid		1
VR1,2	82-375-603-01		Slide volume, 100kΩ(A) x 2 (RECORD)	*	1
VR3,4	82-375-602-01		Slide volume, 10kΩ(A) x 2 (OUT PUT)	*	1
PL1	87-035-201-01		Pilot lamp		1
PL2,3,4	82-371-636-01		Pilot lamp		3
	87-032-503-01		Pilot lamp socket		1
RPH	82-372-676-01		REC/PB head	AD-1200	1
EH	87-046-088-01		Erase head		1
LM	82-375-610-01		Level meter		2
M-PCB-E	82-374-630-01		Motor ass'y	AD-1200	1
S6	82-370-604-01		Leaf switch (QUE/REV muting)		1
S7	82-370-630-01		Leaf switch (Motor)		1
S8	87-031-261-01		Micro switch (Auto stop)		1
S9	82-370-607-01		Leaf switch (Pause)		1
S10	82-358-603-01		G switch ass'y		1
PCB-D	82-374-620-01		Rotary circuit board	AD-1200	1
S11	87-031-303-01		Push switch (Power)		1
S12	87-031-279-01		Slide switch (Voltage selector)		1
S13	82-375-623-01		Slide switch (DIN)		1
F1,2	87-035-080-01		Fuse, 160mA "T"		2
	87-057-800-01		Fuse label, 160mA "T"		2
	87-032-323-01		Fuse clamp		8
F3	87-035-073-01		Fuse, 630mA		1
	87-057-797-01		Fuse label, 630mA		1
F4	87-035-079-01		Fuse 1A		1
	87-057-762-01		Fuse label 1A		1
	87-034-069-01		AC cord		1
	87-033-026-01		Lug plate (1L 3P)	*	1
	82-375-605-01		Shield paper		1
			<Resistor>		
R139,140	88-181-680-01		68Ω 1/4W ±5%		2
			<Capacitor>		
C216	88-212-510-01		300pF Ceramic		1
C219	88-214-810-01		0.01μF Ceramic		1
C220,221	88-457-701-01		0.01μF PME		2

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